

## Royal Irish Academy Medal Lecture

### The Gram-Negative Outer Membrane Structure, Biochemistry and Vaccine Potential

P. OWEN

## colloquia

### 640th Meeting, Heriot-Watt

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**Irish Area Section Meeting, Maynooth**


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<b>Expression of 5-HT<sub>2</sub>- and bradykinin B<sub>2</sub>-receptors coupled to phosphoinositide hydrolysis in cultured guinea-pig aortic smooth muscle cells</b>	J. HAWLEY, P. C. RUBIN & S. J. HILL	<b>21S</b>

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## General topics

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<b>Beetroot and red urine</b>	R. M. PEARCY, S. C. MITCHELL & R. L. SMITH	<b>22S</b>
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<b>Near infra-red reflection measurements and the applicability of the absorption law</b>	F. FARIS, M. THORNLEY, Y. WICKRAMASINGHE, R. HOUSTON, P. ROLFE, N. LIVERA & A. SPENCER	<b>25S</b>
<b>Cloning and sequence determination of the feline calicivirus strain F9</b>	J. MEANGER, M. J. CARTER, R. M. GASKELL & P. C. TURNER	<b>26S</b>
<b>Gel retardation analysis of ribonucleotide reductase gene expression in African Swine Fever virus</b>	A. T. CASEY, L. K. DIXON & P. C. TURNER	<b>27S</b>
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<b>Kinetic evidence for the existence of an unstable intermediate in the trinitrophenylation-induced rhodanese inactivation reaction</b>	E. T. RAKITZIS & T. MALLIOPOULOU	<b>31S</b>
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<b>Thermodynamic considerations of carbon dioxide evolution in respiratory insufficiency</b>	E. T. RAKITZIS & A. POTAMIANOU	<b>33S</b>
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<b>18-Hydroxycortisol stimulation in isolated guinea pig adrenocortical cells parallels that of both aldosterone and cortisol</b>	A. M. CREEDY, D. BURT, C. R. W. EDWARDS & B. C. WILLIAMS	<b>36S</b>
<b>Effects of drugs on the hepatic microsomal glucose-6-phosphatase system</b>	H. M. SCOTT & A. BURCHELL	<b>37S</b>

<b>The effect of the pore forming antibiotic, alamethicin, on the hepatic microsomal glucose-6-phosphatase system</b>	M. W. VOICE & A. BURCHELL	<b>38S</b>
<b>Isolation of rat urinary <math>\alpha_2</math>-euglobulin: A comparison of exhaustive dialysis versus Centriprep ultrafiltration</b>	T. MARSHALL, K. M. WILLIAMS, C. BAYARD & O. VESTERBERG	<b>39S</b>
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<b>The Mb1 polymorphism at codon 192 of the human tyrosinase gene is present in Asians and Afrocaribbeans</b>	J. D. JOHNSTON, L. H. BREIMER & A. F. WINDER	<b>41S</b>
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<b>Purine metabolism in normal and HIV-I infected lymphocytes. Analysis of nucleotides through h.p.l.c.</b>	R. PAGANI, A. TABUCCHI, F. CARLUCCI, M. C. RE, M. RUBINO, L. LOPALCO, E. MARINELLO & A. SICCARDI	<b>47S</b>
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<b>Thermodynamics of talin and talin-vinculin binding to G-actin</b>	W. H. GOLDMANN, S. KAUFMANN & G. ISENBERG	<b>50S</b>

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**Irish Area Section Meeting, Maynooth**


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<b>Elicitation of peroxidase production in cell suspension cultures</b>	M. PARKINSON, I. DIX, C. R. DEANE, J. MORLEY & P. J. DIX	<b>51S</b>
<b>PCR amplification of specific cDNA sequences using mixed oligonucleotide primers — a cautionary note</b>	J. O'CONNELL & S. DOONAN	<b>52S</b>
<b>The effect of immunophotodynamic therapy using the monoclonal antibody HMFG-1 linked to haematoporphyrin on MCF-7 cell <i>in vitro</i></b>	E. S. PROSSER, C. GLEESON, K. CARROLL & R. O'KENNEDY	<b>53S</b>
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<b>Identification of a novel particulate pyroglutamate aminopeptidase from bovine brain</b>	R. O'LEARY & B. O'CONNOR	<b>55S</b>
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<b>Treatment of hypothyroid rats with T<sub>2</sub> (3,5-di-iodo-L-thyronine) rapidly stimulates respiration in subsequently isolated mitochondria</b>	I. O'REILLY & M. P. MURPHY	<b>59S</b>
<b>Chemical production of bifunctional antibodies</b>	O. NOLAN & R. O'KENNEDY	<b>60S</b>
<b>Effects on oral bacteria of a peptide derived from human cathepsin G</b>	S. BOOMER, W. A. COULTER & D. J. S. GUTHRIE	<b>61S</b>
<b>NMR structural studies on an analogue of neurokinin A</b>	R. HUSAIN, A. A. ABU SHANAB, D. J. S. GUTHRIE, G. B. IRVINE, P. J. STEVENSON & J. M. ALLEN	<b>62S</b>
<b>Respiration deficiency in the pathogenic yeast <i>Candida albicans</i></b>	M. A. ABUHATAB & P. A. WHITTAKER	<b>63S</b>
<b>Inhibition of superoxide dismutase is associated with reduced gap junctional intercellular communication in an <i>in vitro</i> system</b>	P. T. TOMKINS, S. M. MOLLOY & M. T. FINNEGIAN	<b>64S</b>
<b>Pathogenicity of <i>Xenorhabdus luminescens</i></b>	D. J. CLARKE & B. C. A. DOWDS	<b>65S</b>
<b>Stress responses of <i>Bacillus subtilis</i></b>	O. HARTFORD & B. C. A. DOWDS	<b>66S</b>
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<b>Increased calpain activity in skeletal muscle of rats maintained on caloric restricted and fasting dietary regimes</b>	B. A. MURRAY, W. J. REVILLE & M. G. ZEECE	<b>69S</b>
<b>Purification and conjugation of anti-insulin IgG from guinea pig serum for use in proinsulin immunoassay</b>	B. O'FARRELL & R. DEVERY	<b>70S</b>
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<b>Dye-mediated photodynamic inactivation of <i>Bacillus subtilis</i></b>	J. F. O'Rourke & B. C. Dowds	<b>76S</b>
<b>The role of calcium in the induction of apoptosis in human tumour cell lines</b>	S. V. LENNON, S. A. KILFEATHER & T. G. COTTER	<b>77S</b>

<b>The regulatory role of zinc in apoptosis in human tumour cell lines</b>	S. V. LENNON & T. G. COTTER	<b>78S</b>
<b>Bronchoalveolar lavage collagenase and collagenase inhibitory capacity in interstitial lung disease</b>	D. MOLONEY, C. M. O'CONNOR & M. X. FITZGERALD	<b>79S</b>
<b>TNF-induced, cytotoxicity-linked IL6 gene expression in L929 cells may require factors other than NF-<math>\kappa</math>B</b>	N. P. PATESTOS, G. HAEGEMAN & W. FIERS	<b>80S</b>
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<b>Purification and characterization of a cysteine proteinase secreted by <i>Fasciola hepatica</i></b>	A. J. DOWD, A. M. SMITH, C. CARMONA, C. ROBERTSON & J. P. DALTON	<b>86S</b>
<b>Patterns of exoprotein production in isolates of <i>Staphylococcus schleiferi</i> and <i>Staphylococcus lugdunensis</i></b>	D. LINEHAN, J. LAWTON, J. ETIENNE, M. J. STORRS & D. SHEEHAN	<b>87S</b>
<b>Plasminogen activator inhibitor type 1 and 2 in human breast cancer</b>	D. M. REILLY, P. A. ANDREASEN, M. DUCH, N. NOLAN, I. LECANDER & M. J. DUFFY	<b>88S</b>